

JAN 15 2004

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s) to: Mail Box ISSUE FEE

Commissioner for Patents  
Washington, D.C. 20231  
**FAX** (703) 746-4000

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

23494 7590 12:00:00 AM

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawings, must have its own certificate of mailing or transmission.

**W. DANIEL SWAYZE, JR.**  
**TEXAS INSTRUMENTS INCORPORATED**  
**PO BOX 655474, M/S 3999**  
**DALLAS, TX 75265**

**CERTIFICATE OF MAILING OR TRANSMISSION**  
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Sharlet Hurst	(Depositor's name)
<i>Sharlet Hurst</i>	(Signature)
1-15-04	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,490	01/07/02	Terence J. Murphy	TI-32876	2800

**TITLE OF INVENTION:** DIGITAL CONTROL LOOP TO SOLVE INSTABILITY OF ELECTROSTATIC DRIVES BEYOND 1/3 GAP LIMIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	01/30/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
Dougherty, Thomas M.	2834	310-309000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.

Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 W. Daniel Swayze, Jr.

2 W. James Brady

3 Frederick J. Telecky, Jr.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

**PLEASE NOTE:** Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TEXAS INSTRUMENTS INCORPORATED

PO BOX 655474, M/S 3999  
DALLAS, TX 75265Please check the appropriate assignee category or categories (will not be printed on the patent)  individual  corporation or other private group entity  government

4a. The following fee(s) are enclosed:

Issue Fee  
 Publication Fee  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

A check in the amount of the fee(s) is enclosed  
 Payment by credit card. Form PTO-2038 is attached.  
 The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 20-0688 (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fees to the application identified above.

(Authorized Signature)

(Date)

Reg. No. 34,478

1-14-2004

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

01/16/2004 AWONDAF2 00000021 200668 09683490

01 FC:1501 1330.00 DA  
02 FC:1504 300.00 DA



Box Issue Fee  
Facsimile Number: 703-746-4000

Total Pages Sent: 2

To: W. Daniel Swayze, Jr.  
Texas Instruments Incorporated  
Facsimile: 972-917-4418 / Phone: 972-5633

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of  
First Inventor: Murphy

Docket Number: TI-32876

Serial No.: 09/683,490

Art Unit: 2834

Filed: 01/07/02

Examiner: Dougherty, Thomas M.

For: DIGITAL CONTROL LOOP TO SOLVE INSTABILITY OF ELECTROSTATIC  
DRIVES BEYOND 1/3 GAP LIMIT

**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following papers are being transmitted by facsimile to the  
U.S. Patent and Trademark Office at 703-746-4000 on the date shown below:

*Sharlet Hurst*  
Sharlet Hurst

*1-15-04*  
Date

**FACSIMILE COVER SHEET**

<input checked="" type="checkbox"/> <b>FACSIMILE COVER SHEET</b>	<input type="checkbox"/> AMENDMENT (# Pages)
<input type="checkbox"/> NEW APPLICATION	<input type="checkbox"/> EOT (# Pages)
<input type="checkbox"/> DECLARATION (# Pages)	<input type="checkbox"/> NOTICE OF APPEAL (# Pages)
<input type="checkbox"/> ASSIGNMENT (# Pages)	<input type="checkbox"/> APPEAL (# Pages)
<input type="checkbox"/> FORMAL DRAWINGS	<input checked="" type="checkbox"/> ISSUE FEE TRANSMITTAL
<input type="checkbox"/> INFORMAL DRAWINGS	<input type="checkbox"/> REPLY BRIEF (IN TRIPPLICATE) (# Pages)
<input type="checkbox"/> CONTINUATION APP'N (# Pages)	
<input type="checkbox"/> DIVISIONAL APP'N	
NAME OF INVENTOR(S): Murphy	
TITLE OF INVENTION: DIGITAL CONTROL LOOP TO SOLVE INSTABILITY OF ELECTROSTATIC DRIVES...	
TI FILE NO.: TI-32876	DEPOSIT ACCT. NO.: 20-0668
FAXED: 01/15/04 DUE: 01/30/04 ATTY/SECY:WDS/slh	
RECEIPT DATE & SERIAL NO.: <b>Serial No.: 09/683,490</b> Filing Date: 01/07/02	

This facsimile is intended only for the use of the address named and contains legally privileged and/or confidential information. If you are not the intended recipient of this telecopy, you are hereby notified that any dissemination, distribution, copying or use of this communication is strictly prohibited. Applicable privileges are not waived by virtue of the document having been transmitted by Facsimile. Any misdirected facsimiles should be returned to the sender by mail at the address indicated on this cover sheet.

Texas Instruments Incorporated  
PO Box 655474, M/S 3999  
Dallas, TX 75265